

INTERNATIONAL SEARCH REPORT

ib/04/50862

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02F1/1335 G02B5/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX; WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000 (2000-02-29) -& JP 11 316373 A (SEIKO INSTRUMENTS INC), 16 November 1999 (1999-11-16) abstract paragraph '0033! paragraph '0024!	1-6
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 142424 A (TOPPAN PRINTING CO LTD), 29 May 1998 (1998-05-29) abstract ----- -/--	1-6



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

25 August 2004

Date of mailing of the international search report

03/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Girardin, F

INTERNATIONAL SEARCH REPORT

ib/04/50862

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 082 639 B (SHARP KK) 2 April 2003 (2003-04-02) paragraph '0088! - paragraph '0091! figure 14 -----	1-6
A	EP 1 160 635 A (DAINIPPON PRINTING CO LTD) 5 December 2001 (2001-12-05) paragraph '0170! figure 17 -----	1-6

INTERNATIONAL SEARCH REPORT

ib/04/50862

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 11316373	A	16-11-1999	NONE	
JP 10142424	A	29-05-1998	JP 3412426 B2	03-06-2003
			AU 737307 B2	16-08-2001
			AU 2469397 A	11-12-1997
			CA 2207016 A1	05-12-1997
			EP 0811859 A2	10-12-1997
			US 6643039 B1	04-11-2003
EP 1082639	B	14-03-2001	DE 69906512 D1	08-05-2003
			DE 69906512 T2	19-02-2004
			EP 1082639 A1	14-03-2001
			WO 9963395 A1	09-12-1999
			JP 2002517781 T	18-06-2002
			US 6595648 B1	22-07-2003
EP 1160635	A	05-12-2001	JP 2001337584 A	07-12-2001
			JP 2001356673 A	26-12-2001
			JP 2002040219 A	06-02-2002
			EP 1160635 A2	05-12-2001
			US 2002001109 A1	03-01-2002